State of Alaska
Department of Fish and Game
Nomination for Waters
Important to Anadromous Fish

AWC Volume SE SC SW W AR IN USGS Quad KENAI A-4

Anadromous Water Catalog Number of Waterway 244-20-10090-2030-3036

Name of Waterway _____ USGS name ___ Local name ___

Addition ✓ Deletion ___ Correction ___ Backup Information ___

For Office Use

Nomination # 95 310
Revision Year: -95
Revision to: Atlas ___ Catalog ___
Both X
Revision Code: A-2

Regional Supervisor — Date 1/12/95

Ed Weiss — 12/14/94

D. Crowe — Drafted — Date 12/23/94

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Migration	Anadromous
COHO	7/13/94	PROB.	✓		✓

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as any other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments: SEE ATTACHED MAP, FISH HABITAT SURVEY FORM, MEMORANDUM & PHOTOS FOR STATION 2-A-3. TOM LIEBSCHER & LES CHRISTIAN REPORTED FREQUENT BEAR TRAFFIC & BALD EAGLE ACTIVITY AT THIS LOCATION LAST FALL.

Name of Observer (please print) MICHAEL WIEDMER

Date: 9/22/94 Signature: MICHAEL WIEDMER

Address: ADF&G, HABITAT & RESTORATION DIVISION REGION II, ANCHORAGE.

This certifies that in my best professional judgement and belief the above information is evidence that this waterbody should be included in or deleted from the Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes per AS 16.05.870.

Signature of Area Biologist: _____

Rev. 7/93

FISH HABITAT SURVEY FORM

Rev. 7/30/93

STATION NO: 2-A-3 DATE: 7/13/94 TIME: 1415

OBSERVERS: MW LC TL TEAM: (A) B STREAM NO: _____

WEATHER: (CLEAR) PRT. CLDY. CLOUDY

STREAM STAGE: HIGH (MEDIUM) LOW

PRECIP: TODAY ~~T~~ 0 YESTERDAY TR THIS WEEK _____

TEMP: AIR _____ WATER _____ GRADIENT: _____ %

WATER CLARITY: (CLEAR) STAINED TURBID MUDDY MURKY

SUBSTRATE: (MUD) (SAND) (GRAVEL) (COBBLE) BLDR/B-ROCK

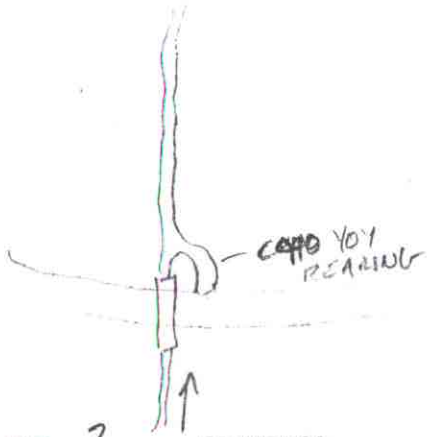
(100) IN SIDE CHANNEL
5
75
20
_____
100%

STREAM DIMENSIONS:

WIDTH 7'
DEPTH, LEFT BANK 8"
DEPTH, RIGHT BANK 0"
DEPTH, MID-CHANNEL 6"

VELOCITY: ~~None~~ Slow Medium Fast
fps (0) 0 - 1 (1 - 3) 3+

CHANNEL DIAGRAM (INCLUDE BANK & STREAM FEATURES, VEGETATION):



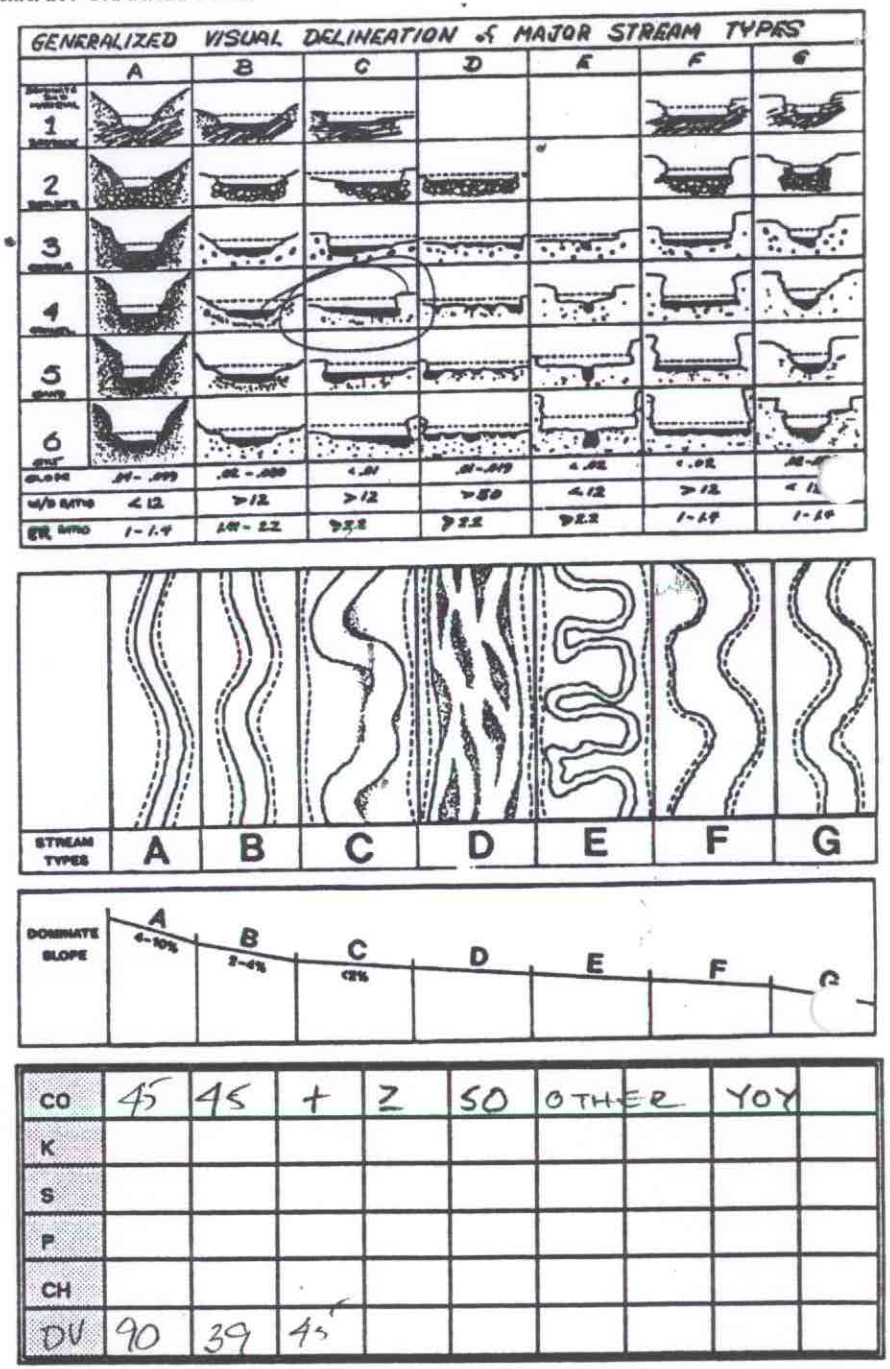
COHO REARING POOL

POOL
10' WIDTH
3' DEPTH

ALGAE

ROLL NO. 2 FRAME NOS. _____

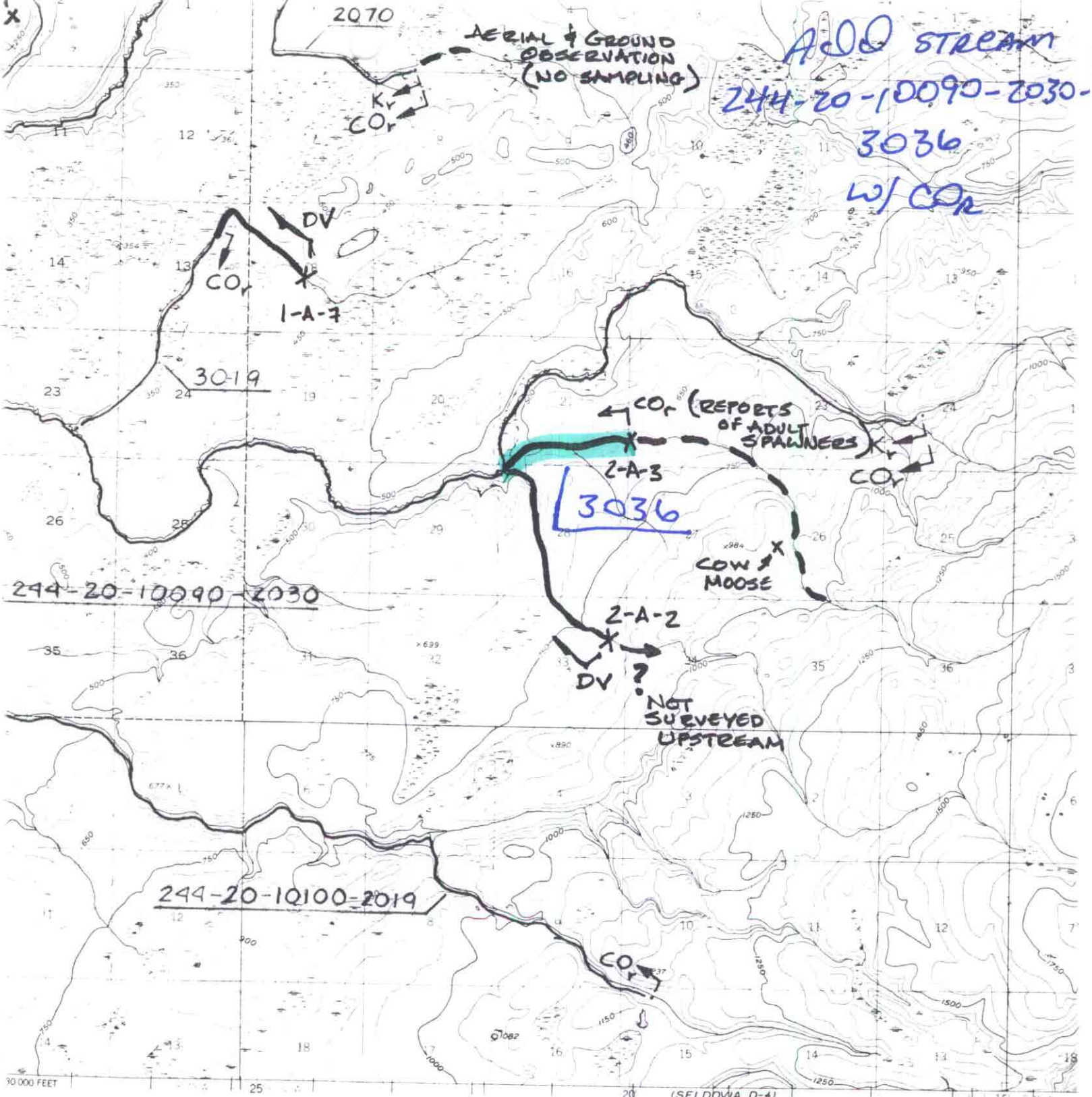
CIRCLE DOMINANT CHANNEL TYPE:



OBSERVATIONS: 50-200 COHO YOY REARING IN SIDE CHANNEL
BEARS & EAGLES OBSERVED LAST FALL ALONG STREAM

CO	45	45	+	2	50	OTHER	YOY		
K									
S									
P									
CH									
DV	90	39	43						

FISH SAMPLING GEAR: EF TIME: 65 AREA: 10' ^{2} EFFIC: 70 %



)ublished by the Geological Survey
USCE

imetric methods from aerial photographs
ed 1951 Map not field checked

ta compiled from USC&GS Charts H3196C (1910),
), and 8554 (1:200 000 scale) (1952)
tended for navigational purposes

ator projection, 1927 North American datum
n Alaska coordinate system, zone 4
nsverse Mercator grid ticks.

unsurveyed and unmarked locations
eau of Land Management
an

icate only the wetter areas
erpreted from aerial photographs

holdings within the boundaries of
eservations shown on this map
ted North American Datum 1983 map

APPROXIMATE MEAN DECLINATION, 1951
TRUE NORTH
MAGNETIC NORTH

SCALE 1:63 360

1 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 50 FEET
DOTTED LINES REPRESENT 25 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 17 FEET

Lake elevations are unchecked

DOCUMENTED ANADROMOUS
PROBABLE ANADROMOUS
DOCUMENTED R
PROBABLE RE

MEMORANDUM

State of Alaska

DEPARTMENT OF FISH & GAME

DATE: September 23, 1994

TO: Ed Weiss
Habitat Biologist
Region II
Habitat and Restoration Division
Department of Fish and Game

TELEPHONE NO.: 267-2284

FAX NO.: 349-1723

SUBJECT: Fish Habitat Survey; Ninilchik River Drainage

FROM: Michael Wiedmer
Habitat Biologist
Region II
Habitat and Restoration Division
Department of Fish and Game

On July 12 and 13, 1994, Tom Liebscher and I (joined by Les Christian on July 13 only) conducted a helicopter-supported fish habitat survey of portions of the Ninilchik River and Crooked Creek drainages. Tom Liebscher, a U. S. Forest Service employee in the State and Private Forestry section, is working with the Department of Natural Resources, Division of Forestry (DOF) Kenai/Kodiak Area Office in the preparation of pre-harvest silvicultural prescriptions for the Falls Creek Timber Sale. Les Christian is a DOF employee also working on the Falls Creek Timber Sale. The survey was conducted to more accurately delineate and describe fish habitat within the proposed Falls Creek Timber Sale and along potential access routes.

The survey was conducted with an Evergreen Helicopters' Bell 206 on fire contract to the DOF. With a Smith-Root battery-powered backpack electrofisher and cured salmon roe baited minnow traps, we sampled 11 stations on 9 streams. The survey identified 4 previously undocumented anadromous fish streams and established the presence of resident fish in 3 streams and extended known (resident) fish habitat in 3 additional streams (in 1 stream, the lower reach was identified as anadromous fish habitat and the upper reach was identified as resident fish habitat).

Sampling sites were located near the probable upstream limit of anadromous or resident fish distribution as determined by aerial observations. However, the availability of helicopter landing sites and the limited time available for the survey frequently prevented the survey crew from sampling the actual upper limit of fish distribution. After sampling and determining fish presence, each stream was aerially surveyed upstream of the sampling point to identify blockages to fish migration or changes in fish habitat. On the attached map, the known distribution of anadromous or resident fish is identified by a solid line. The probable distribution of anadromous or resident fish is identified by a dashed line. As a result of the dry summer, water levels were slightly lower than normal. The general area was previously

surveyed by the ADF&G in 1988[1].

In addition to site sampling, at low altitudes and slow flight speeds, we aerially surveyed portions of the drainage to determine the potential distribution of anadromous and resident fish. We identified segments of 8 streams that may support anadromous fish (see attached maps). We also identified segments of 5 streams that may support resident fish. Future surveys should focus on these streams. The low-level aerial survey also determined that 4 streams that appear on the USGS 1:63,360 maps probably do not support anadromous or resident fish (see attached maps).

Attachments (2 maps, 3 photograph folders, 11 fish habitat survey forms, Seaberg memo, and 4 anadromous fish stream nomination forms)

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[1]Seaberg to McKay, October 17, 1988 ADF&G memorandum (attached).